

**Patent Claims**

1. Use of BH4 or derivatives thereof for the manufacture of a medicament for the prevention and/or treatment of respiratory diseases.
2. The use of BH4 or derivatives thereof as claimed in claim 1, wherein the respiratory disease is selected from the group consisting of COPD, bronchial asthma, pulmonary fibroses, emphysema, interstitial pulmonary disorders and pneumonias.
3. The use of BH4 or derivatives thereof as claimed in claim 1, wherein the respiratory disease is COPD.
4. Use of BH4 or derivatives thereof for the manufacture of a medicament for the prevention and/or treatment of muscular dysfunction in COPD patients.
5. Use as claimed in any of claims 1 to 4, wherein additionally to BH4 or derivatives thereof, arginine or derivatives thereof are used in simultaneous, separate or sequential combination with BH4 or derivatives thereof.
6. A method for preventing and/or treating COPD in a patient in need thereof comprising the step of administering an effective amount of BH4 or derivatives thereof.
7. A method according to claim 6, characterized in that additionally to an effective amount of BH4 or derivatives thereof, an effective amount of arginine or derivatives thereof is administered in a simultaneous, separate or sequential combination with BH4 or derivatives thereof.
8. Use of a pharmaceutical composition comprising BH4 or derivatives thereof for the prevention and/or treatment of COPD.
9. Use as claimed in claim 8, characterized in that the pharmaceutical composition comprises additionally to BH4 or derivatives thereof, arginine or derivatives thereof as a simultaneous, separate or sequential combined preparation.
10. A commercial product comprising: a customary secondary packaging, a primary packaging comprising a pharmaceutical preparation of BH4 or derivatives thereof and, if desired, a package insert, the pharmaceutical preparation being suitable for prevention and/or treatment of COPD in patients in need thereof.
11. Use of BH4 or derivatives in combination with arginine or derivatives thereof for the manufacture of a medicament for the prevention and/or treatment of respiratory diseases.

12. Use as claimed in claim 11, wherein the respiratory disease is selected from the group consisting of COPD, bronchial asthma, pulmonary fibroses, emphysema, interstitial pulmonary disorders and pneumonias.
13. Use as claimed in claim 11, wherein the respiratory disease is COPD.
14. Use of BH4 or derivatives thereof in combination with arginine or derivatives thereof for the manufacture of a medicament for the prevention and/or treatment of muscular dysfunction in COPD patients.
15. A method for preventing and/or treating COPD in a patient in need thereof comprising the step of administering an effective amount of BH4 or derivatives thereof in combination with an effective amount of arginine or derivatives thereof.
16. Preparation, comprising BH4 or derivatives thereof and arginine or derivatives thereof as a combined preparation for simultaneous, separate or sequential administration for use in the prevention and/or treatment of respiratory diseases.
17. Pharmaceutical composition comprising BH4 or derivatives thereof and arginine or derivatives thereof.
18. Pharmaceutical composition as claimed in claim 17 comprising further a pharmaceutically acceptable carrier.
19. Pharmaceutical composition as claimed in claim 18 or 19 for use as a medicament.
20. Pharmaceutical composition as claimed in claim 18 or 19 for use in the prevention and/or treatment of respiratory diseases.
21. Use of a pharmaceutical composition as claimed in claim 18 or 19 for the prevention and/or treatment of respiratory diseases.
22. Use of a pharmaceutical composition as claimed in claim 18 or 19 for the manufacture of a medicament for the prevention and/or treatment of respiratory diseases.
23. Trade package comprising as pharmaceutical agent BH4 or derivatives thereof and/or arginine or derivatives thereof together with an instruction for use of this pharmaceutical agents in combination for simultaneous, separate or sequential administration for the prevention and/or treatment of respiratory diseases.